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NEWS 11 Jun 10 PCTFULL has been reloaded  
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saved answer sets no longer valid  
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NEWS 18 Aug 08 NTIS has been reloaded and enhanced  
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now available on STN  
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NEWS 21 Aug 19 The MEDLINE file segment of TOXCENTER has been reloaded  
NEWS 22 Aug 26 Sequence searching in REGISTRY enhanced  
NEWS 23 Sep 03 JAPIO has been reloaded and enhanced  
NEWS 24 Sep 16 Experimental properties added to the REGISTRY file  
NEWS 25 Sep 16 CA Section Thesaurus available in CAPLUS and CA  
NEWS 26 Oct 01 CASREACT Enriched with Reactions from 1907 to 1985  
NEWS 27 Oct 21 EVENTLINE has been reloaded  
NEWS 28 Oct 24 BEILSTEIN adds new search fields  
NEWS 29 Oct 24 Nutraceuticals International (NUTRACEUT) now available on STN  
NEWS 30 Oct 25 MEDLINE SDI run of October 8, 2002  
NEWS 31 Nov 18 DKILIT has been renamed APOLLIT  
NEWS 32 Nov 25 More calculated properties added to REGISTRY  
NEWS 33 Dec 02 TIBKAT will be removed from STN  
NEWS 34 Dec 04 CSA files on STN  
NEWS 35 Dec 17 PCTFULL now covers WP/PCT Applications from 1978 to date  
NEWS 36 Dec 17 TOXCENTER enhanced with additional content  
NEWS 37 Dec 17 Adis Clinical Trials Insight now available on STN  
NEWS 38 Dec 30 ISMEC no longer available  
NEWS 39 Jan 13 Indexing added to some pre-1967 records in CA/CAPLUS  
NEWS 40 Jan 21 NUTRACEUT offering one free connect hour in February 2003  
NEWS 41 Jan 21 PHARMAML offering one free connect hour in February 2003  
NEWS 42 Jan 29 Simultaneous left and right truncation added to COMPENDEX,

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MISSING OPERATOR PROTEIN) NATURATION  
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=> s chaperonin and ((folding (w) protein) or naturation)  
L1 120 CHAPERONIN AND ((FOLDING (W) PROTEIN) OR NATURATION)

=> s l1 and (anaerobic or urea or osmolyte or glutathione or oxidation or redox or reduction or reducing or oxidizing)  
L2 9 L1 AND (ANAEROBIC OR UREA OR OSMOLYTE OR GLUTATHIONE OR OXIDATIO  
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L4 ANSWER 1 OF 6 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.

PY 1999

AU Hartl, F. Ulrich (1)

TI The folding of proteins in the cell.

SO Nordrhein-Westfaelische Akademie der Wissenschaften Natur- Ingenieur- und  
Wirtschaftswissenschaften Vortraege, (1999) No. 440, pp. 43-54. print.  
ISSN: 0944-8799.

L4 ANSWER 2 OF 6 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.

PY 2000

AU Gottesman, Max E. (1); Hendrickson, Wayne A.

TI Protein folding and unfolding by Escherichia coli chaperones and  
**chaperonins**.

SO Current Opinion in Microbiology, (**April, 2000**) Vol. 3, No. 2,  
pp. 197-202.  
ISSN: 1369-5274.

AB The folding of proteins from their initial unstructured state to their  
mature form has long been known to be promoted by other proteins known as  
chaperones and **chaperonins**. Recent biochemical and structural  
discoveries have provided dramatic insight into how these **folding  
proteins** work. This review will discuss these findings and suggest  
future experimental directions.

L4 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2003 ACS

PY 1997

AU Hanson, Peter Eric

TI Protein refolding using molecular assistants. 1. mechanistic studies of  
artificial chaperone-mediated refolding of carbonic anhydrase B from the  
**urea**-denatured state. 2. evaluation of contrafacial amphiphiles as  
protein refolding aids

SO (1997) 258 pp. Avail.: UMI, Order No. DA9736974  
From: Diss. Abstr. Int., B 1998, 59(2), 663

AB Unavailable

L4 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2003 ACS

PY 1997

AU Bardwell, James C. A.

TI PDI and thioredoxin-related proteins - an overview

SO Guidebook to Molecular Chaperones and Protein-Folding Catalysts (  
1997), 311-314. Editor(s): Gething, Mary-Jane. Publisher: Oxford  
University Press, Oxford, UK.  
CODEN: 65RBAT

AB A review with 30 refs. The formation of native disulfide bonds is often a  
vital step in the folding of secreted proteins and in the stabilization of  
their native structures. In contrast, disulfide **redn.** appears  
important for maintaining the structure and controlling the activity of  
cytosolic proteins. Most if not all of the proteins that catalyze protein  
thiol-disulfide exchange belong to the thioredoxin superfamily.

Thiol-disulfide exchange is one of the few covalent modifications that occur during protein folding. The study of a reaction that is well defined in chem. terms provides a no. of advantages, and as a result the reaction mechanisms of a no. of these catalysts are very well known. The reaction starts with a nucleophilic attack by a reactive SH group which results in the formation of an unstable mixed disulfide. This is followed by a 2nd nucleophilic attack which results in the transfer of the disulfide between the proteins.

L4 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2003 ACS

PY 1997

2001

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2001

IN Pakula, Andrew; Bowie, James

TI A screening method depending on protein folding for identifying potential pharmaceutical ligands for target proteins

SO Eur. Pat. Appl., 32 pp.

CODEN: EPXXDW

AB A method for screening chem. compds. (test ligands) for potential pharmaceutical effectiveness is provided. The method identifies possible therapeutic test ligands by placing them in the presence of target proteins and detg. their ability to increase or decrease the ratio of folded target protein to unfolded target protein. The present methods do not require that biochem. function of the target protein be known, nor that any other ligands be previously identified. The methodol. of the invention was used to identify ligands. e.g. inhibiting Hb S polymn.

L4 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2003 ACS

PY 1996

AU Jaenicke, Rainer

TI How do proteins acquire their three-dimensional structure and stability?

SO Naturwissenschaften (1996), 83(12), 544-554

CODEN: NATWAY; ISSN: 0028-1042

AB A review with 42 refs. Proteins are multifunctional in the sense that their specific amino acid sequence simultaneously dets. self-organization, function and turnover. Evolution has to compromise between rigidity (stability) and flexibility (function/degrdn.) to the effect that the free energy of stabilization of proteins is the equiv. of only a few weak interactions ( $\Delta G_{stab} = 45 \pm 15 \text{ kJ} \cdot \text{mol}^{-1}$ ). Mol. adaptation of thermophiles, psychrophiles, and other extremophiles is accomplished by extrinsic factors that are not encoded in the amino acid sequence, or by minute local structural changes involving mainly ion pairs and hydrophobic side chains. The acquisition of the native 3-dimensional structure may be described by single- or multiple-pathway folding and assocn., where the fast collapse of the polypeptide chains leads to molten-globule-like states; subsequent shuffling reactions yield structured monomers which, in the case of oligomers, undergo specific assocn. to form the native functional state. The rate-limiting steps (Cys oxidn., Pro isomerization, subunit assembly) are catalyzed or directed by enzymes of chaperones.

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